EDITOR:
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CLUB REPEATER:
W4DW (RPT) (146.04/64)
CLUB CALL:
W4DW (RPT) (146.04/64)

"RALEIGH AMATEUR RADIO SOCIETY NEWS"

JUNE 1981 ISSUE 135

LASERS

RARS Program Chairman Phyllis Wainwright, N4CKM, said two films on lasers will be shown at the club's June meeting.

The two 10-minute films, produced by Bell Laboratories, explore the development and technology of lasers.

Laser is an acronym for light amplification by stimulated emission of radiation.

A laser utilizes the natural oscillations of atoms or molecules between energy levels for generating coherent electromagnetic radiation in the ultra-violet, visible, or infra-red regions of the spectrum.

RARS will meet Wednesday, June 3, at 7:30 p.m. in the West Community Room at Crabtree Mall.

Licensed radio amateur operators and others interested in ham radio are invited to attend.

...../RPT

Repeater Rubbish by Ken Boggs

The following info on local repeaters has been gathered by yours truly. Additional info from concerned users will be appreciated. Also, if other repeater info is desired, then please let me know, and I'll mess it up as good as this. KB4RV

Nets:

Raleigh Weather Net	Wed & Sun	
1900 Local	146.28/88	
RARS Open Tfc Net	Nightly	
2000 Local	146.04/64	

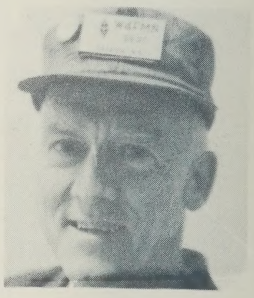
Repeaters:

Raleigh	146.04/64	
	146.13/73	Patch
	(see Billy Edwards)	
	146.28/88	Wide Cover
	146.75/15	Patch
	(see Danny)	
Durham	146.34/94	
	147.22/82	Patch
	147.825/225	
Fayeteville	147.93/33	
	146.31/91	
Burlington	147.07/67	
New Bern	146.01/61	
Goldsboro	146.25/85	
Knightdale	146.415/147.015	
	144.89/145.49	
Smithfield	146.37/97	
Dunn	146.10/70	
Level Cross	146.19/79	Wide Cover
Winston-Sa	146.28/88	
	146.04/64	
	147.315/915	Local
Rocky Mt.	147.72/12	
N.Wilksborc	145.31/91	
Boone	147.36/96	

Notes;

- The autopatch facilities are not general in nature. My assumption, obtain permission from repeater sponsor.
- Frequencies are listed transmit first, receive second. Set transceiver for receive frequency then + or - 600 duplex.
- This list is incomplete and maybe inaccurate. Please let me know if these repeaters in fact are operational. Also let's add more info. I don't travel much so I depend on your accurate feedback. Tnx. 73. Ken.

BERT'S BEAT WITH BERT BAILEY, W4FMN



WA! HOPPEN?

With all the computer enthusiasts anxious to displace EE curricula, the name of IEEE, analog devices of all types, and electrons in general, how come Columbia's computers failed at liftoff? "Why did you leave me, Lucille?" cry the bit freaks. Well, Señor Murphy took charge again. With only a 2% chance that the primary computer would communicate out of phase with the backup computer, that probability became 100% when all the world turned its

eyes on the TV set(s). Instead of changing program instructions,--a quick fix, maybe--NASA just chopped the power to the now-dumb terminals and started all over,--reinitializing, as they say. It was, when the smoke cleared away, a phasing problem. The computers in the shuttle had to be synched with those in the headshed. One redundant computer slipped one cycle in timing its signal with telemetry equipment and that started the dominoes to falling. Even tho the telemetry's clock is updated once per minute, this was ancient history in the resulting donnybrook. So in essence, it was ole man Murphy, new to computer youngsters but old hat to old EEs, like power engineers. Maybe NASA should put ole Prof Winkler in the cockpit next time! Got to be positive about this thing, so.....wasn't that slick the way those throttle jockeys greased that X-tons monster on the runway deadstick? No sweat as they say. BUT, I wonder how Jim WA4AOO would handle the stick at 20,000 feet with no power and the runway far away-----giving lots of time to think????? Or me for that matter. Another most positive thot ---that tremendous feat performed by those geniuses in the Columbia puts the USA back in the Space Wars with some real clout.

One may not like Wayne Green, or NSD, but he really hammers home some salient points. Complaining about expensive computer equipment he has bought in the past, only to be smothered in bugs and absolutely no output, he castigates those particular manufacturers. At the Fifth International Conference on Software held recently in San Diego, it was pointed out that much confusion was caused by users' poor understanding of what they want their software to do. Software has grown so rapidly that neither management nor users can entirely comprehend the technology. It's the old caveat emptor bit. Try the shoe on before buying. One prof at Maryland U says that 60% of the cost of software is maintenance' bugs. Studies by Bell Labs prove that most of a programmers' time is taken up in trying to understand the program he wants to change. Remember that software is the main thing with computers not hardware. Thank EEs for this.

(Editor's note:

This article was reprinted from "The Javelin", campus newspaper of Lenoir Community College at Kinston, N.C., the March 30, 1981 issue.)

LOCAL HISTORY GIFT RECEIVED

Mr. and Mrs. J. W. P. Hodges of Raleigh recently donated a collection of items to Lenoir Community College for use in the local history collection in the library, according to Mrs. Mildred Matthis, Associate Dean of Learning Resources.

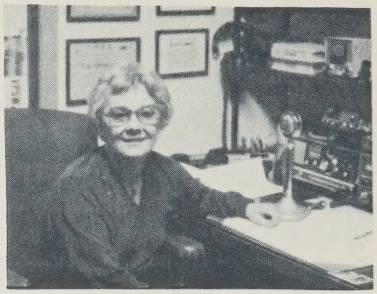
Included in the collection are a September 2, 1899 copy of the Industrial Issue of the Kinston Free Press, a 1906 copy of the Industrial Edition of the Kinston Free Press, a copy of the book Links that Bind, a story on the Parrott family by Evelyn Parrott Scott along with several photos, stories, and family tree background information. Hodges also gave the college another copy of the research he has done on the Parrott, Hodges, and Arendell families.

Mrs. Matthis noted that the Learning Center was very pleased with the gifts. "The September 2, 1899 issue of the paper is an exceptional addition for us. We have it on microfilm but this is an added bonus. We are also very pleased to get the 1906 Industrial Issue and the book, which we will put in our reference section. The photos and other stories will add greatly to our collection on local history," Mrs. Matthis added. Mrs. Matthis explained that the family tree chart that Mr. Hodges was giving the college would be laminated for preservation.

Mr. Hodges, a retired senior engineer with Carolina Power and Light Company, is a Kinston native who left Kinston in 1928 due to his job. In explaining the gift, Mr. Hodges noted that "I am no genealogist but I do like to stir the ashes and kick a rock. This material is a collection of some 50 years of thinking about the family history and actually putting it down on paper."

"This material will make a fine addition to our growing local history section," Mrs. Matthis concluded.

MINUTES OF LAST MEETING



ANN BRADLEY, WA4APK

Secretary, RARS

The regular monthly meeting of the Raleigh Amateur Radio Society was held on May 6 in the West Community Room at Crabtree Valley Mall. The meeting was called to order by President "Doc" Cobb, W4YZX, and members and guests were welcomed. Guests this evening were Bob Owens, KA4KST, Cliff Craig, KA4STG, Bill Jones, KA4STE, Carl Newton who's awaiting a call, and John Preston--all of Raleigh. The roster was signed by 45 persons.

President Cobb announced the following events :

- Roanoke Division Planning Sessions Falls Church, Va. May 9 - 10
- Durhamfest May 16 - 17
- Manassas, Va. Hamfest June 7
- Atlanta, Ga. Hamfest June 20-21
- RARS Board Meeting May 20
- CQ Worldwide Contest May 30-31
- Field Day June 27-28

In regard to Field Day, Doc asked for volunteers to take charge of the event and passed around a sign-up sheet for members who plan to participate. There is a need for operators and equipment as well as help in setting up and

taking down. Members were also asked their feelings about a picnic supper for Saturday night. Field Day plans must be finalized by next meeting if RARS is to participate.

Doc also announced that Murray Hake, W6MVZ, has taken a temporary position in Charlotte and will be leaving us, at least for a time. Murray has been a valuable member and will be missed by all. We hope her absense is only temporary.

President Cobb asked for reports from the following committees:

FM Committee-George Richards, WA4EKG, reported that after much troubleshooting, it has been determined that the repeater antenna is defective and must be replaced before the repeater problems can be resolved. George asked that the club allocate an expenditure of $500.00 for the antenna and related expense. the motion was made, seconded, and carried. It is expected that the antenna will be delivered and ready for installation by early June.

Hamfest- Rollin Ransom, NF4P, reported that the Hamfest was the most successful financially that RARS has ever had and expressed his appreciation to his committee chairmen and others who assisted in the many necessary tasks of making the Hamfest a successful one. Our thanks to Rollin. As we all know, RARS' support depends largely upon a good hamfest.

Newsletter- C.T. West, WD4HSI, expressed appreciation to the columnists who are regular contributors to the newsletter and requested further input from members. Ken Boggs, KB4RV, offered to furnish local repeater information for the newsletter and asked for input from members.

Training- Bob Johnson, AA4L, announced that training classes have been successfully completed for the summer months. Upgrade classes will begin in the fall again for Technician and General.

President Cobb reminded members to renew ARRl membership before July 1 at the present rate and if renewed through RARS, an additional $1.50 may be deducted from the total. Also, the newsletter mailing list has been purged. If 1981 dues have not been paid, your newsletter subscription has been terminated.

Phyllis Wainwright, N4CKM, introduced the program for the evening-an ARRL Antenna Quiz by Bob Johnson, entitled "All You Don't Know About Antennas and Really Don't Want to Know." Bob's presentation was most interesting and furnished a great deal of valuable information--whether or not you really wanted to know.

The drawing for the door prize, a TI Slimline Calculator was won by C.T. West, WD4HSI, and the meeting was adjourned following coffee, doughnuts, and fellowship.

RALEIGH AMATEUR RADIO SOCIETY, INC.
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RALEIGH
MAY 29 '81
N. C.
U.S. POSTAGE
18
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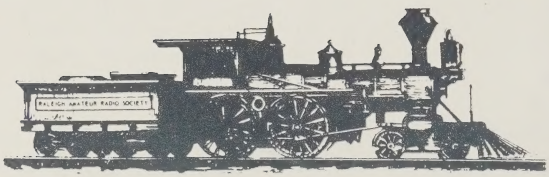

RARS meets each first Wednesday at 7:30 p.m. in the West Community Room of Crabtree Valley Mall.

Calendar

June 3
Regular RARS meeting

June 7
Manassas, Va. Hamfest

June 17
RARS Advisory Board meeting

June 20, 21
Atlanta, Ga. Hamvention

June 27, 28
Annual ARRL Field Day